148

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Like cDNA (SEQ ID NO:1) and Sequences Amino Acid (SEQ ID NO:2) Figure 1 Map of Human IL-17

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119

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79

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and Amino Acid Peptide Signal ID NO:3) Predicted Figure 2A cDNA (SEQ (Map of Mouse IL-17 Like CDNA Sednences ID NO:4) (SEQ

19

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59

	•																			
<u> </u>	IJ	ACCC	Д	CCAC	н	CATC	Н	CCAC	H	GCTG	u	IGGC	ტ	GGCT	¥	CTGA		ICAA	GGAG	58 AAACTCTGACTTTTGCACTTTTTGGAAGCACTTTTGGGAAGGAGCAGGTTCCGCTTGTGC
CAG	ഗ	AGA	臼	GAG(ഗ	GGC	Ø	GTA(×	CCC	Д	CCA	Ħ	CTT(IJ	AGG(GGT	TGG	CTT
CGT	>	GCA	Ø	TCT	Ц	CAG	ĸ	CCT	ᄓ	GGA	Ω	ATG	Ö	CTC	വ	CTG		CCG	ACT	CCG
CAC	H	AGA	闰	CCC	Д	CAG	വ	GGA	Ω	CAT	Σ	GCC	ф	AGT	>	TGC		GGG	AGG	GTT
CCA	田	CAA	×	AGA	ы	CAA	Z	CCA	Ø	CCA	Ħ	9299	ద	SSS	ፈ	'ACC		TGC	TGG	CAG
AAC	H	CAG	ഗ	CCC	Д	CCT	Ц	CCC	д	CIC	Ŋ	922	ፚ	CTA	×	'ACC		CAA	AGA	GAG
999	ტ	$\mathcal{C}\mathcal{C}\mathcal{C}$	Д	CCC	വ	SCCC	Д	GGI	>	AGG	O	CTA	×	GCT	Ы	CTC)TGC	ACA	AAG
ZGGT	>	CTC	ပ	GTC	ഗ	TGG	Ŋ	ATCG	ሊ	GAC	H	CTT	伍	SCAG	ፈ	ATC		VCC1	3995	rggg
GAT	Η	CTC	ပ	TGT	>	₹GG7	О	'GAZ	Z	PACZ	Ø	7,6,6,7	>	\GCC	ĸ	\GTC		ATC?	200	rrr
SAAT	М	CAC	ഗ	PATC	വ	3CA2	ᅜ	\CTJ	Ы	2005	니	AGAC	₽	rgg7	闰	TTZ	*	ACA.	3GC1	CAC
0 0 0 0	А	ופכנ	д	TIGO	Ą	CAC	ß	3GG7	Ω	CAC	ß	YCC7	Ø	3CTJ	니	rgg	Ø	rgT2	3CA(4AG(
	IJ	ACTI	H	CTC	ഗ	3660	A	ACAC	ద	3093	>	ACA2	Z	ACTO	ပ	rca1	Σ	4GG⊡	3CA(rgg2
CATI	দ	3TC?	Ħ	3GA(ß	3CA(ద	rgg2	Ω	ACT(ပ	4CC2	田	3CT2	×	3GG.	>	3CC7	3AA(rTT.
FIGG	ď	3CAC	വ	\GTC	Z	CTC	Ö	\GT:	Ы	SAC	H	ΓTT	×	3000	民	SCC	ద	₹GG(CTC	ACT.
CT G	>	3CT(ບ	rga.	×	AAT(ഗ	ATG2	闰	3000	Д	CAC	Ы	ATC(ፈ	3900	Д	3AG1	CTA(rgc,
4GG	A	₽ GG(Ŋ	3GC.	니	CAG	田	3CT/	×	rgT(ပ	ICC	Д	CCC	Ή	JGC(ద	3GA(300	LTT
3CC2	Ø	AGG/	闰	AGT(Z	ACG(Ø	3GA(വ	BCC	Ц	CCG	>	GTA(₽	GTG	>	ľľG(AAA(GAC
r g T/	×	ICC.	Ø	AGG.	田	ACC.	田	CTT(M	GAT(ပ	ACT(W	AAG	G	TGT(ပ	CGG.	TCC.	TCT
K	Z	GGA	Н	CGG?	田	CCC	呂	CIC	Д	CIC	ፚ	GCA	Z	AGG,	田	GTG'	>	gaa	CCC	AAC'
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\vdash		58	11	118	31	178	51	238	71	298	91	358	111	418	131	478	160	538	598	658



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Figure 2B

CTGGAAGCCATACTCCTGGCTCCTTTCCCCTGAATCCCCCAACTCCTGGCACAGGCACTT AGCCAGGTGTAATTGCCTTGAAGGATGGTTCTGAGGTGAAAGCTGTTATCGAAAGTGAAG TGCTAGAGGATGCTGTTGTGGCATTTCTACTCAGGAACGGACTCCAAAGGCCTGCTGAC 778 838 898 958

and Non-Secreted Form of Mouse IL-17 Like cDNA (SEQ ID NO:9), Corresponding Amino Acid Sequence (SEQ ID NO:10 of Map

SCACTGGCCAAGGCTGTTGCATTCTTGGCAATGATCGTGGGAACCCACACCGTCAGCTTG CCGGGCAGGTGCCCTCGGCGCGTCCCAAAGCTTAGGGAAGCTCCAGGTGTCTTGGGAAAT GCCTAGGGTCGAGGGCCATTATCACCTACAAATCAGAATGTGGGAGTGCTATTCTAGAGG TTCCAGCCCCGGTTGGCTGCCAGAGGCTTCCTCTGGCGTTGGGTACAGAGGCAGAGAAAG <u> AAACCCCAAATGTCTCCTATGAAAAACAATGTCCCCGTCATCCAGGCCAGATCATTCTGC</u> AGTGTCAACAGTTGAGACAAGAAGCTGGGGTCATTTTCTGTGCCTAAGAGTGCCTGTTCT 61 121 181 241 301 361 421 481

CGGATCCAGGAGGGCTGCAGTCACTTGCCCAGCTGCTGCCCCAGCAAAGAGGAAGAACCC 闰 MIVGTHTV Д ß Ö

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4/28 Figure AGCCAGGTGTAATTGCCTTGAAGGATGGTTCTGAGGTGAAAGCTGTTATCGAAAGTGAAG TCTCCTTGGAGCTATGAGTTGGACAGGGACTTGAATCGGGTCCCCCAGGACCTGTACCAC TGCTAGAGGATGCTGTTGTGGCATTTCTACTCAGGAACGGACTCCAAAGGCCTGCTGAC ACCCACCACGCAGAATCCTGCAGGCCCAGCAAGGATGGCCCCCCTCAACAGCAGGGCCATC GGCAACTCCGTCCCACTTTACCACAACCAGACGGTCTTCTACCGGCGGCCATGCCATGGC GAGGAAGGTACCCATCGCCGCTACTGCTTGGAGCGCAGGCTCTACCGAGTCTCCTTGGCT SCCCTCCAAAGCCCTACCTGAAGCAGCAGGCTCCCGGGACAAGATGGAGGACTTGGGGAG <u> AAACTCTGACTTTTGCACTTTTTGGAAGCACTTTTGGGAAGGAGCAGGTTCCGCTTGTGC</u> CTGGAAGCCATACTCCTGGCTCCTTTCCCCTGAATCCCCCAACTCCTGGCACAGGCACTT TGCCCGGTTGGGAGAGAGGGCCAGGTGTACAATCACCTTGCCAATGCGGGCCGGGTTCAA D M 吆 \succ Ŋ > ₽ ტ 召 ĸ S L Q Z ₽ ഗ Д Ø > Z Ö ø R V M ပ H Д H Ц R 면 Ы 耳 > ບ 臼 ഗ Ö 3 1141 .321 1441 71 781 91 111 901 131 961 151 1021 1081 201 .261 381 31 661 51 721 841

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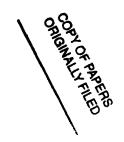
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90

130

150

161



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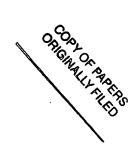
Figure 3A

hIL-17L (SEQ ID NO:2) hIL-1 Sequence, Family Member Amino Acid Sequence, Pile-Up of Human IL-17 Like Amino Acid Human Known ൯ with

(SEQ ID NO:5)

25.0% identity in 160 AA overlap 155; Smith-Waterman score:

60 PSKGQ ::	120 LPQDL : :
10 20 30 40 50 60 APVSLLPRGLSVSAPLVTECAVPSMYQVVAFLAMVMGTHTYSHWPSCCPSKGQ : ::: : : : : : : : : 1: :	70 80 100 110 120 DTSEELLRWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDL : :: :: :: : : : : :
40 ;vvaflamvmg; :::: : : illsleaivka;	100 GPLNSRAISP : : :YYNRSTSP
30 VTECAVPSMYQ : PGKTSLVSLLL 10	80 90 EPARPNRHPESCRASEDGE : : : : : : HNRNTNTNPKRSSD
20 RGLSVSAPL ⁷ MT	80 PPLEPARPNI : :HNRNTN
10 XPAPVSLLF	70 LLRWSTVPV :: :: VMVNLNI
XNQDSXE	DTSEELL : :: NFPRTVM 40
hIL-17L hIL-17	hIL-17L hIL-17



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6/28 Figure

Figure 3B

VGCTCVTPIVHHVA

hIL-17

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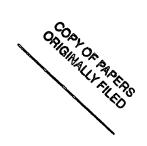
150

LACVCVRPRVMA

hIL-17L

190

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(SEQ ID NO:2) (SEQ ID NO:6 hIL-17L, Sequence, Seguence, IL-20 Amino Acid Pile-Up of Human IL-17 like Amino Acid Figure a Known Human with

36.7% identity in 90 aa overlap Opt: 175 Initn: 124 175; Smith-Waterman score: Init1: 124 SCORES

130 RPRVMA 190 hIL-17L

hIL-20

щ

hIL-20

LGCVNPFTMQE-DRSMVSVPVF-SQVPVRRRLCPPPRTGP--CRQRAVMETIVAGCTCI

160

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Pile-Up of Human IL-17 Like Amino Acid Sequence, hIL-17L, (SEQ ID NO:2) hIL-17b (SEQ ID NO:7) a Known Human IL-17 Amino Acid Sequence, Family Member Figure with

aa overlap in 90 124 Opt: 178 35.6% identity Initn: 178; Smith-Waterman score: Init1: 124 SCORES

	70	80	06	100	110	120
hIL-17L	RWSTVPV	PPLEPARPNRE	IPESCRASEDG	PLNSRAISPW	RYELDRDLN	RWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLC
hIL-17b	RNIEEMVA 70	AQLRNSSELAÇ 80	JRKCEVNLQLW 90	MSNKRSLSPW 100	GYSINHDPSR 110	RNIEEMVAQLRNSSELAQRKCEVNLQLWMSNKRSLSPWGYSINHDPSRIPVDLPEARCLC 70 80 90 100 110 120
	130	140	150	160	170	180
hIL-17L	PHCVSLQ	TGSHMDPLGNS	3NSVPLYHNQTVFYRRPCH	YRRPCHGEEG	THRRYCLE	PHCVSLQTGSHMDPLGNSVPLYHNQTVFYRRPCHGEEGTHRRYCLERRLYR-VSLACVCV
hIL-17b	LGCVNPF	·· 'TMQE-DRSMVS	SVPVF-SQVPV	 RRRLCPPPF	I TGPCRQF	

RPRVMA 190 F 180 hIL-17b hIL-17L

130

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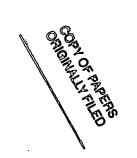
6A Figure

(SEQ ID NO:2) Family Member, hIL-17L IL-17 Like Amino Acid Sequence, Known Human Sequence of Acid Pile-Up of Human with Amino

NO:8 П SEQ Opt: 236 194 Initn: Init1: 149 SCORES aa overlap 34.5% identity in 171 243; Smith-Waterman score:

hIL-17L hIL-17c	20 GLSVSAPLV' MTLLP(30 FECAVPSMYQV SLLFLTWLHTC	40 VAFLAMVMG' CLAHHDPSLR(20	20 30 40 50 60 69 SLSVSAPLVTECAVPSMYQVVAFLAMVMGTHTYSHW-PSCCPSKGQDTSEELLR : : :	60 CPSKGQI :: YSAEELPLGQ	69 OTSEELLR : APPHLLARGA 50
hIL-17L	70 -WS-TVPVP	80 PLEPARP-	-NRHPES-	70	100 -DGPLNSRAI	110 SPWRYELDRD
hIL-17c	: :: KWGQALPVA 60	 LVSSLEAASHI 70	: : RGRHERPSAT' 80		:: :: : :	

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Figure 6

	120	130	140	150	160	169
hIL-17L	LNRLPODLY	HARCLCPHCV	LNRLPQDLYHARCLCPHCVSLQTGSHMDPLGNSVPLYHNQTVFYRRPCHGEEGTHR	SNSVPLYHNQ	FVFYRRPCHGE	EGTHR
hIL-17c	: EDRYPQKLA	: FAECLCRGCI	: : ::	:: -NSVRLLQSLI	: :: :VLRRRPC-SR	: DGSGLPTPG
	120	130	140	150	160	170
	170	180	190			
hIL-17L	RYCLERRLY	RYCLERRLYRVSLACVCVRPRVMA	PRVMA			
	•••	•••				
hIL-17c	AFAFHTEFI	AFAFHTEFIHVPVGCTCVLPRSV	PRSV			
	180	190				

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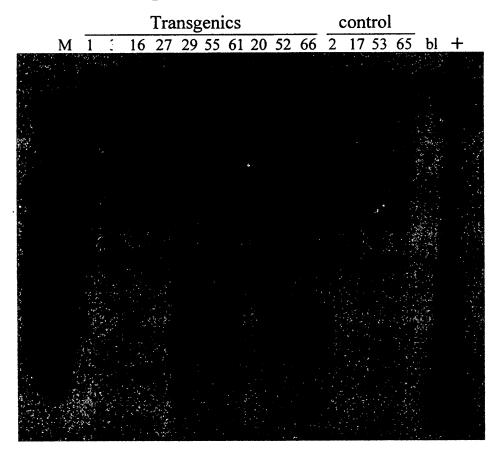


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11/28 Figure 7

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Northern Blot Expression Analysis of TH00-018 Necropsied Transgenic Founders



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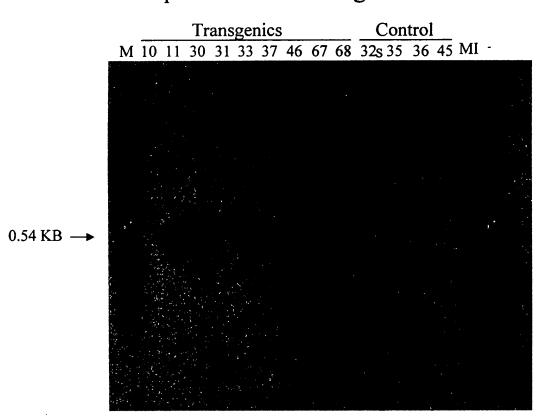


12/28 Figure 8 **RECEIVED**

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Northern Blot Expression Analysis of TH00-018 Hepatectomized Transgenic Founders





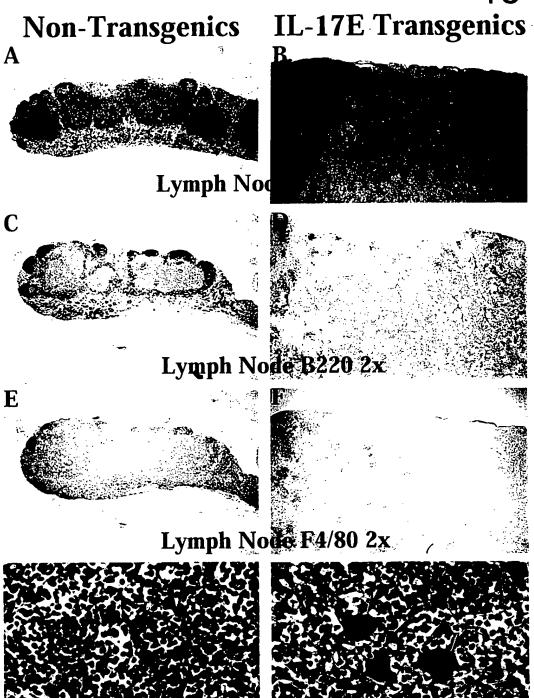


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Figure 9

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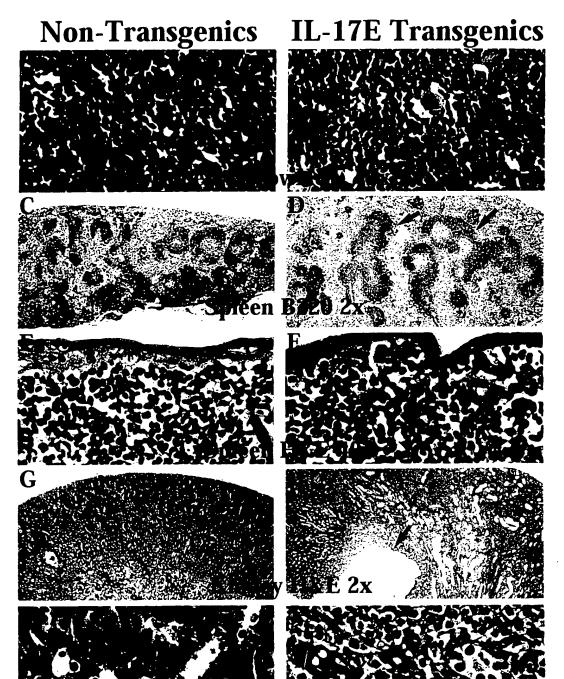
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Figure 10

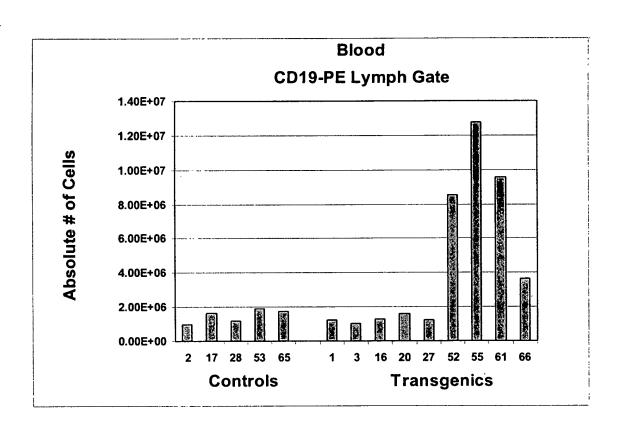


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15/28 Figure 11



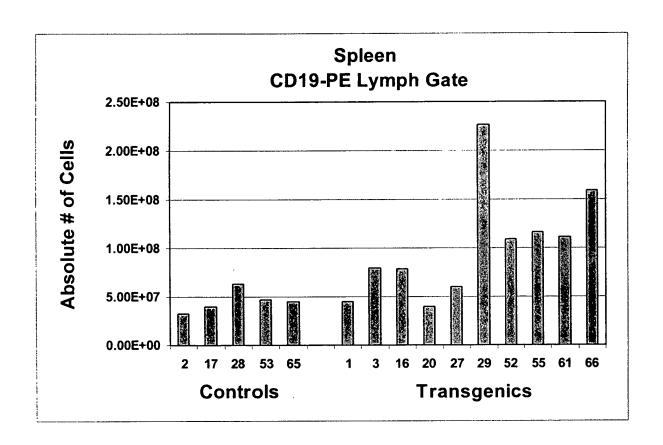




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Figure 12

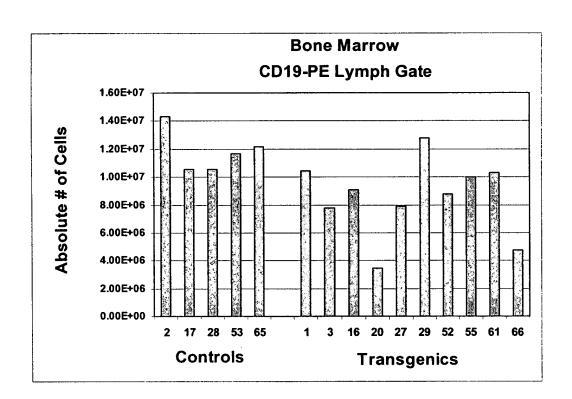






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17/28 Figure 13

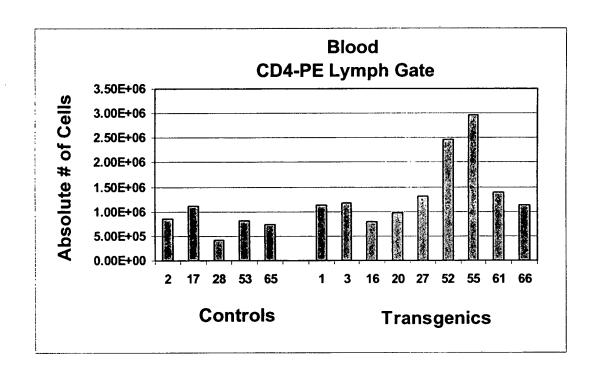






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18/28 Figure 14

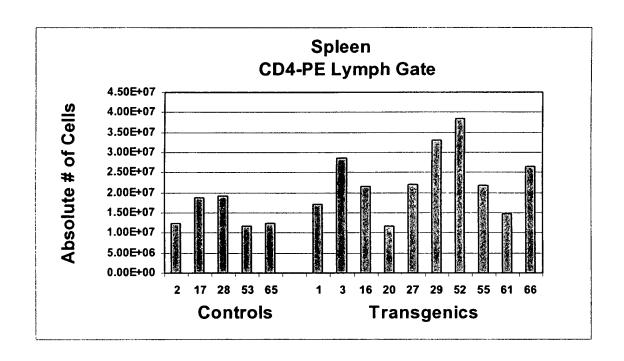






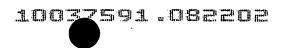
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19/28 Figure 15









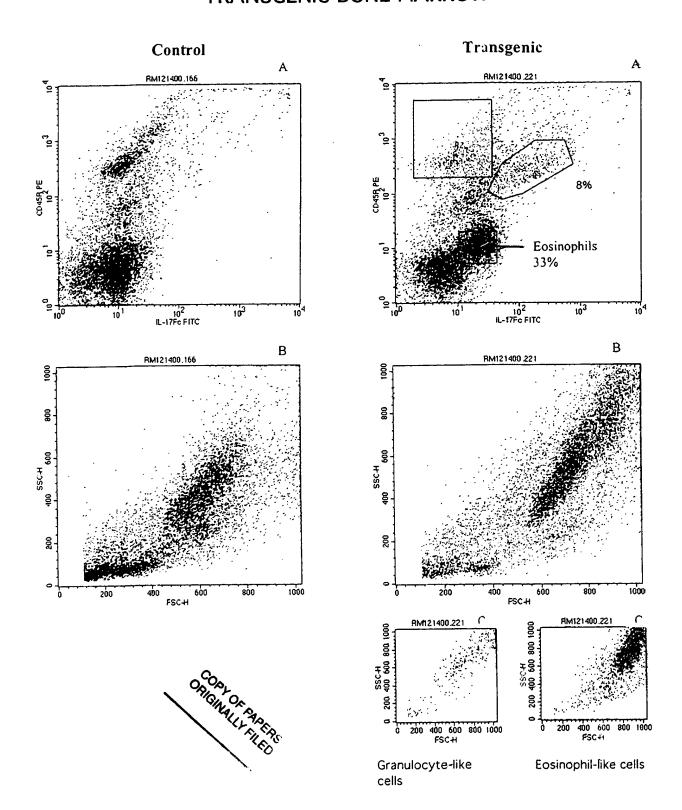
20/28 Figure 16

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CD45R+ CELLS EXPRESSING IL17Br IN TRANSGENIC BONE MARROW





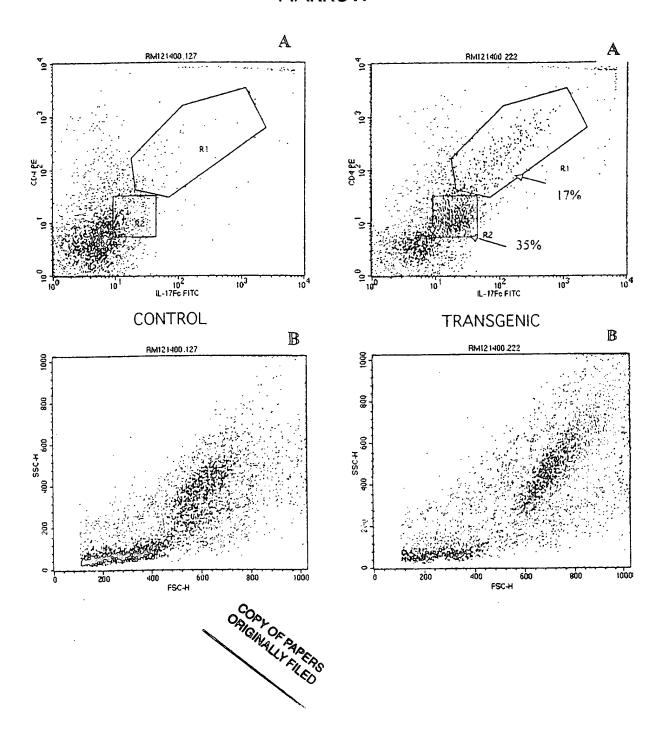
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Figure 17 CD4

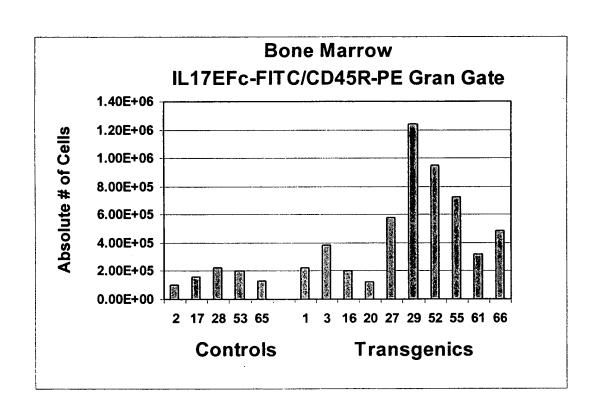
CD4+ CELLS EXPRESSING IL17Br IN TRANSGENIC BONE MARROW





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22/28 Figure 18





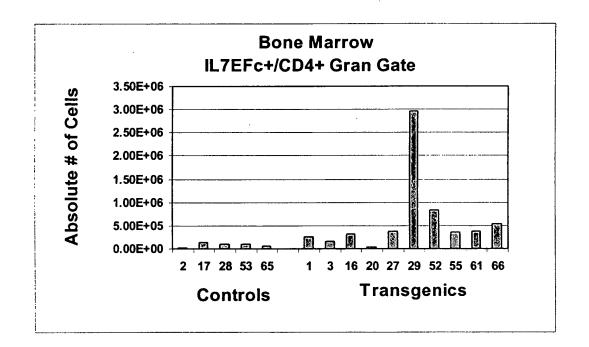


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Figure 19







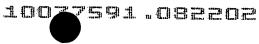
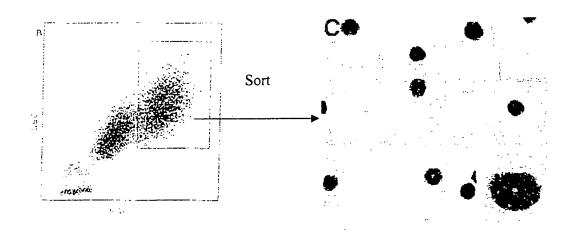


Figure 20



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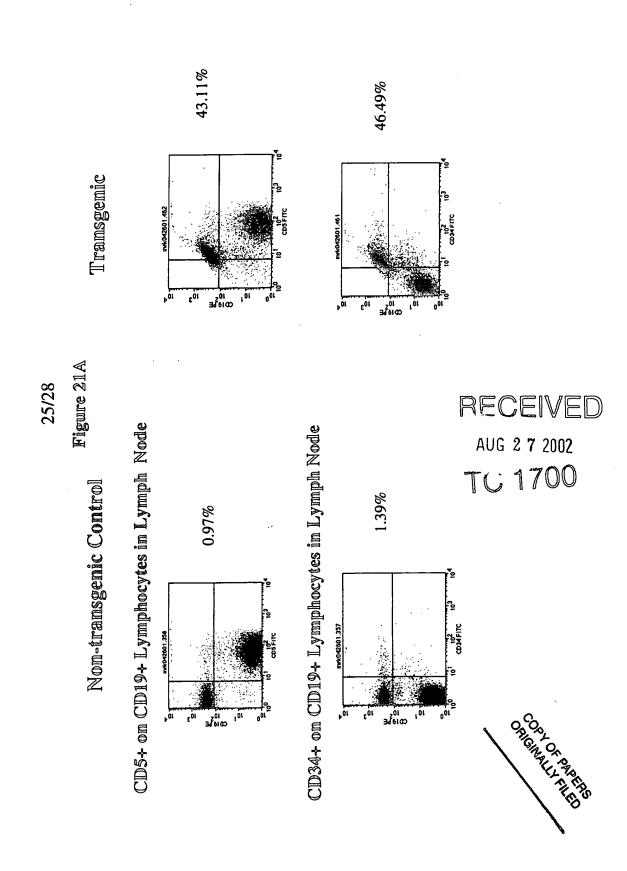
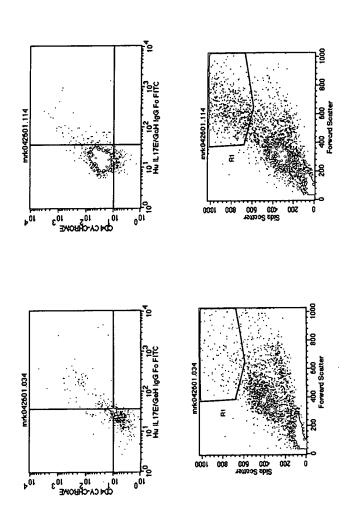




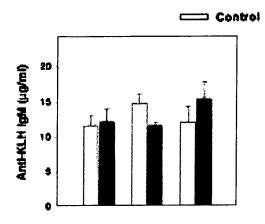
Figure 21B CD4 Expression on Eosinophils in Bone Marrow

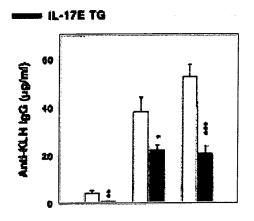


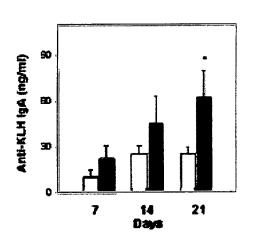
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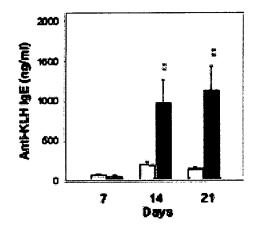
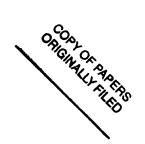


FIG.22



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FIG.23